

Really artificial

Research into artificial intelligence leans toward the pragmatic at the U of A.

2

Taming the budget

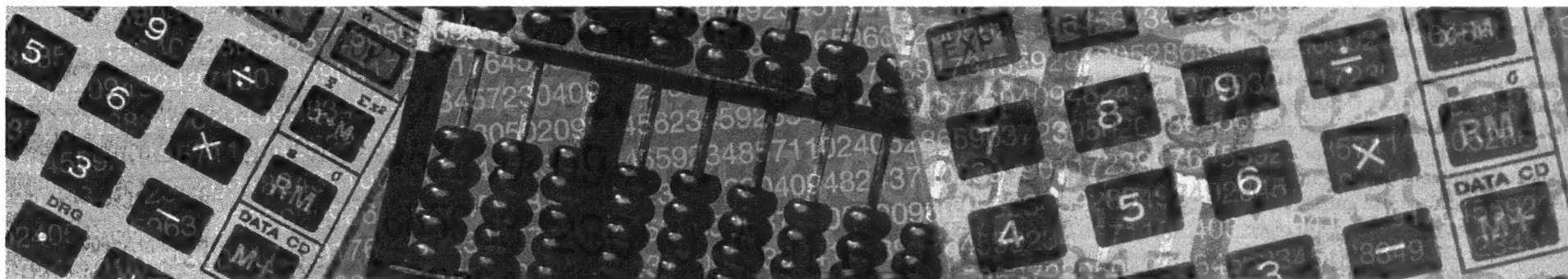
University administrators are taking action to cut costs and balance the budget.

3

Can celebrities help?

Dr. David Schindler welcomes Robert F. Kennedy Jr.'s Waterkeepers.

5



UNIVERSITY OF ALBERTA

folio

Volume 39 Issue 10

JANUARY 25, 2002

<http://www.ualberta.ca/folio>

Basic researchers earn beyond-basic support

Foundation tops up funding for promising work

By Ryan Smith

Dr. Chris Bleackley and Dr. Richard Rachubinski have each been awarded \$400,000 (US) over five years from the Maryland-based Howard Hughes Medical Institute (HHMI). It is the second time the University of Alberta biomedical researchers have received grants from the institute. Bleackley is well known for his work employing molecular genetic and biochemical techniques to investigate the way T-lymphocytes perform their specific functions. He is particularly interested in understanding how cytotoxic T-cells kill their targets. T-lymphocytes play a key role in the body's defence against disease. The more researchers know about the cells the closer they come to the development of new immunotherapies.

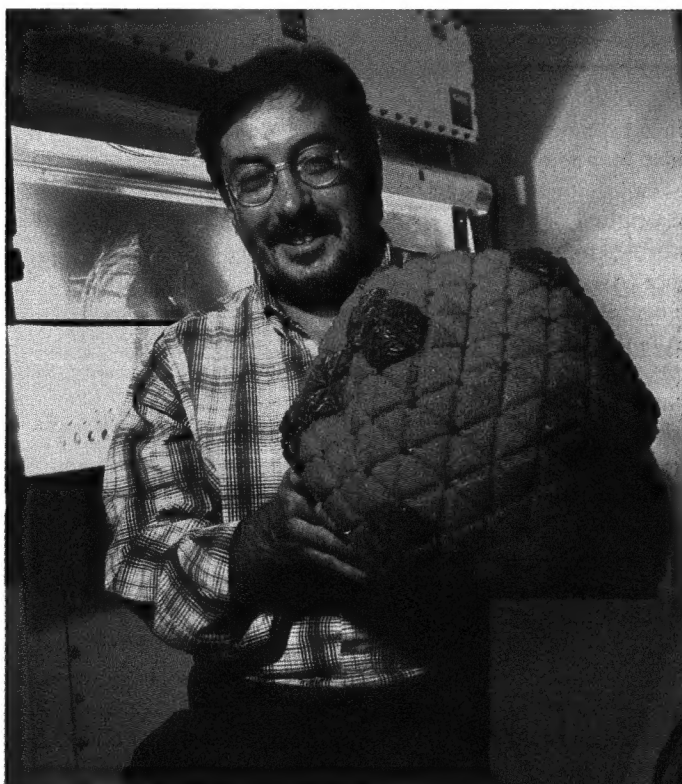
No stranger to awards, Bleackley conducts basic research that has shown promise in leading to treatments for a number of diseases, including cancer. His laboratory at the U of A produced a breakthrough in the study of T-cells last year, when Bleackley and his team of researchers discovered how some diseased cells avoid being killed even after our immune system has attacked them.

That discovery could lead to the development of a range of new drugs. Some could kill cancer cells that are also able to evade the immune system attacks; and others could be used to treat organ transplantation rejections.

The research led to Bleackley receiv-

"The competition was especially strong in Canada, but these two doctors have proven in their proposals and their past work that they are truly outstanding scholars...It's exciting for us to be a part of their research, if only from the sidelines."

— Dr. Jill Conley, director of international programs, HHMI



Richard Siemens

what stage they're at in developing treatments. I do know that applied research has to come through basic research, though, and not the other way around."

Rachubinski and Bleackley are two of 13 Canadian researchers to receive grants in the HHMI's most recent announcements. "Drs. Bleackley and

Rachubinski had to reapply, as did everyone who was previously funded," said Dr. Jill Conley, director of international programs for the HHMI. "The competition was especially strong in Canada, but these two doctors have proven in their proposals and their past work that they are truly outstanding scholars...It's exciting for us to be a part of their research, if only from the sidelines."

Thirty Latin American researchers also received funding during the HHMI's latest round of funding, which amounted to \$16.25 million in new grants for 43 outstanding biomedical researchers in Canada and five Latin American countries. The money provides salaries for stu-

dents and other laboratory personnel, as well as laboratory equipment and supplies. It also allows researchers to visit collaborators and attend conferences.

"I love my job," said Rachubinski. "I get to interact with great people at the U of A and internationally, and it's just a real honour to be recognized and supported again by the HHMI."

Rachubinski also receives funding from the Canadian Institutes of Health Research, Canadian Foundation for Innovation, Canada Research Chairs and The Heart and Stroke Foundation of Ontario.

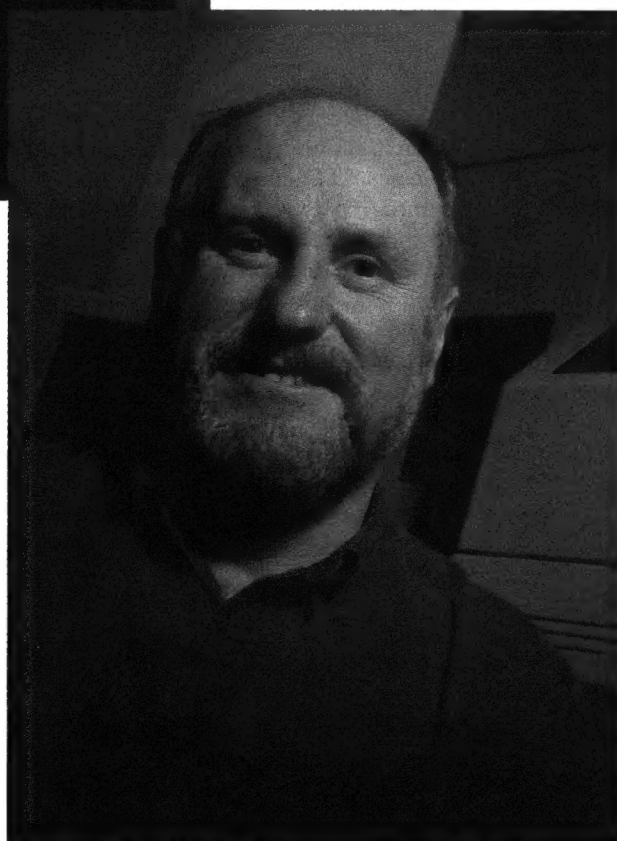
Bleackley also receives support from the Alberta Heritage Foundation for Medical Research, the Canadian Institutes of Health Research and the National Cancer Institute of Canada. ■

ing the 2001 Robert L. Noble Prize, regarded as the most prestigious honour awarded to Canadian cancer researchers.

Dr. Rachubinski is recognized around the world for his work on the study of peroxisomes, structures within cells that perform essential functions of lipid metabolism. Certain genetic diseases, such as Zellweger Syndrome, a fatal affliction that strikes infants, have been traced to the abnormal assembly of peroxisomes. His lab is attempting to understand what causes these disorders so that new drugs and gene therapies can be devised.

Rachubinski is the Canada Research Chair in cell biology and chair of the Department of Cell Biology in the U of A's Faculty of Medicine and Dentistry. He has been conducting basic cell biology research for more than 20 years.

"I see potential applications of our work for gene therapists, but I'm not sure



Richard Siemens

Dr. Chris Bleackley (top) and Dr. Richard Rachubinski have each been awarded \$400,000 (US) over five years from the Maryland-based Howard Hughes Medical Institute.

Debate team tops Canada, finishes 12th in world

U of A team felt comfortable in distinguished company

By Richard Cairney

The University of Alberta Debate Society has argued its way to world-class stature, finishing as the top Canadian team at the World Universities Debating Championships last week in Toronto.

The U of A debating team of Alex Ragan and Stephanie Wanke came in ahead of all the Canadian entries and closed the competition in twelfth place overall out of 230 teams from 100 universities in 30 countries.

"We stepped up against Oxford and Cambridge and other top schools in the world, and now when those teams hear the name 'University of Alberta' they'll be looking over their shoulders and know we're coming up fast," said Barrie Tanner, a graduate student in political science who attended the competition as an adjudicator. "It was a really impressive showing."

In fact, Ragan and Wanke lost on points in the quarterfinals to a debating team from New York University's law school, the competition's eventual winners. The two teams had previously advanced from the same debate group, arguing over the extradition of accused killers to face the death penalty, leaving two teams from Oxford behind.

"I guess if you can pick a team to get beaten by, the one that wins the world title is the one you'd want to lose to," Ragan, a

fourth-year biology student, said of the U of A's loss to NYU.

The debates can be somewhat complicated affairs, with four teams of two meeting to debate an issue after just 15 minutes to prepare. The pro and con teams debating during the second half are expected to expand on issues raised by the teams debating in the first half. One winner is chosen from the four to progress. So when a team in the first half of the debate covers and elucidates the most pertinent points, their colleagues in the second half of the debate struggle to find anything to add to the case.

"With NYU, we were left picking up crumbs," said Ragan. "They did a pretty thorough job."

So did all the U of A teams, he added. The team of Rahool Agarwal and Kirsten Odynski came in 36th overall while Helen McGraw and Roman Kotovych finished 61st. Adjudicator Janine McCready rounded out the U of A contingent.

"Stephanie and I were worried about being in the lower levels," said Ragan, "because you're in there with teams like Oxford and Cambridge, and we were beating these teams. We found that we were on the same level, that on an international scale we were very much up to the challenge. Stephanie is very intelligent—I



U of A debaters Kirsten Odynski and Alex Ragan enjoy a good argument.

think she's quite brilliant."

Odynski, president of the U of A Debate Society, said the job of convincing judges provides participants with valuable skills. Because they're informed of their topic and their position on it just minutes prior to a debate, they need to stay well informed on current events and have the ability to improvise.

"We tell people that anyone can be a good debater, as long as they want to," she

said. "You need a sense of confidence, and some people seem to be naturally talented at remembering facts, but it is 100 per cent desire."

The result, she says, is that people in the society find their academic skills improve. "I think everyone here has an easier time writing essays and exams," she said. "We are able to organize information quickly. And it provides you with public speaking skills, which is terribly important." ■

"We stepped up against Oxford and Cambridge and other top schools in the world, and now when those teams hear the name 'University of Alberta' they'll be looking over their shoulders and know we're coming up fast."

—Barrie Tanner

folio

Volume 39 Number 10

OFFICE OF THE VICE PRESIDENT
(EXTERNAL RELATIONS)
OFFICE OF PUBLIC AFFAIRS,
6TH FLOOR GENERAL SERVICES BUILDING
UNIVERSITY OF ALBERTA,
EDMONTON, ALBERTA T6G 2H1

LEE ELLIOTT: Director,

Office of Public Affairs

RICHARD CAIRNEY: Editor

GEOFF MCMASTER: Assistant Editor

CONTRIBUTORS:

Richard Cairney, Timothy Caulfield, Stephen Osadetz, David Schindler, Ryan Smith

GRAPHIC DESIGN:

Penny Snell, Jennifer Windsor, Tim Hoffpauier

Folio's mandate is to serve as a credible news source for the University community by communicating accurate and timely information about issues, programs, people and events and by serving as a forum for discussion and debate. *Folio* is published 20 times per year.

The editor reserves the right to limit, select, edit and position submitted copy and advertisements. Views expressed in *Folio* do not necessarily reflect University policy. *Folio* contents may be printed with acknowledgement.

Inquiries,
comments and letters should be directed to Richard Cairney, editor, 492-0439
richard.cairney@ualberta.ca

Display advertising

Deadline: 3 p.m. one week prior to publication
Clark Johnson, 439-5473, 431-6021 (pager)

Classified Ads

Deadline: 3 p.m. one week prior to publication
Cora Doucette, 492-2325

Talks and Events

Deadline: 9 a.m. one week prior to publication
Cora Doucette, 492-2325 Fax: 492-2997
cora.doucette@ualberta.ca

ISSN 0015-5764 Copyright 2001



University
of
Alberta

The University of Alberta maintains a database of all alumni. This database is used to send you news about the U of A, including *Folio* and *New Trail*, invitations to special events and requests for support. On Sept. 1, 1999, post-secondary institutions were required to comply with the Freedom of Information and Protection of Privacy legislation of the province of Alberta. In accordance with this legislation, please respond to one of the following options:

- ☐ Please keep my name, or
☐ Remove my name from the *Folio* list.

Signature _____

No response means the University of Alberta assumes an individual wishes to remain on the mailing list.

Creating the ghost in the machine

Research into artificial intelligence zeroes in on the pragmatic

By Stephen Osadetz

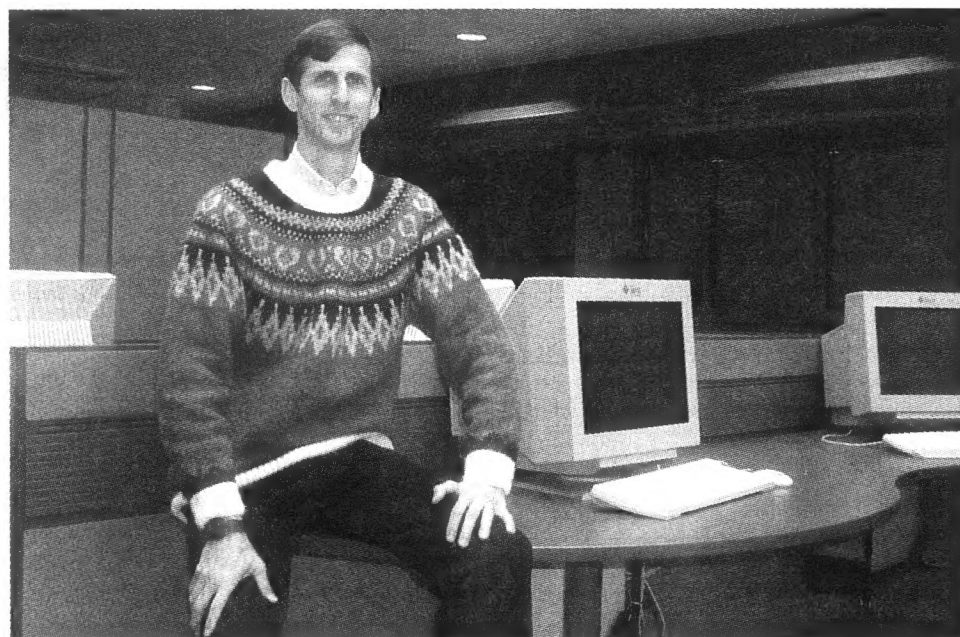
Tacked to Dr. Russell Greiner's office door is a quote by Argentine author Jorge Luis Borges. The passage describes the fantastically incongruent categories into which animals fall in "a certain Chinese Encyclopedia," including mermaids and "those that from a long way off look like flies." The quote is a testament to the importance of creative, original thought, the kind Greiner brings to his work in artificial intelligence (AI).

Greiner, a professor of computing science at the University of Alberta, aims to make computers learn from, and adapt to, their users. He creates what are called adaptive-user interfaces, programmed algorithms that can change a computer's configurations automatically to suit a specific user. He describes a simple example: "If I've always watched *Whose Line is it Anyway?* on Thursdays, why can't my VCR figure out how to program it for me?"

The areas in which this technology could be applied are vast. Greiner's research, supported by the Natural Sciences and Engineering Research Council, has delved into computer interfaces, Web-site navigation, video games, and medical diagnostics. His relatively recent foray into video games had him teamed with industry leaders Electronic Arts and Edmonton's Bioware, recently named Alberta's fastest-growing company by *Alberta Venture Magazine*. He envisions a new generation of computer games that will adapt to the people who play them: computerized soccer goaltenders that learn from experience to predict their adversary's next move, or war games that create new key commands to suit each player's idiosyncrasies.

For Greiner, AI is a field of research that could change the way people relate to the technologies they use. He's wary, however, of popular culture's sensational obsession with AI that emulates human intelligence. "That's a fascinating topic, by no means a trivial one, but that's not what I do."

He sees, instead, a range of different artificial intelligences. "There are a lot of



Dr. Russell Greiner is researching practical applications for artificial intelligence.

misconceptions. There are people who are concerned with [human-like AI], but there are many other areas of AI applications as well: they could control industrial plants, drive cars, interpret genetic sequences, and understand speech."

Greiner, along with his colleagues at the U of A, is developing a Web site that seeks to correct public misconceptions about AI. Called Alxploratorium (<http://www.cs.ualberta.ca/~aixplore/>), this site provides a wide range of information on AI in a friendly, interactive format. In trying to appeal to laypeople and post-doctoral fellows alike, Alxploratorium offers online AI demos, text-based material, and examples of the algorithms themselves. The Web site explicitly aims to "soon become the authoritative site for AI research."

During July and August of this year, Edmonton and the U of A will become the collective Mecca of the international AI community when several conferences, all centred around the American Association for Artificial Intelligence's (AAAI) National Conference, descend on the city. Greiner notes his own contribution in per-

suading the AAAI to make Edmonton the city for its first conference off American soil.

"I was in a position to lure the AAAI to Edmonton. The weak Canadian dollar helped," he jokes, "but they finally did decide to come here." Greiner will play a variety of different roles at the eight separate conferences where he will act as co-chair and will also present his own work.

He's happy to showcase the U of A's computing science department and encourage new AI researchers to come here. "There's a camaraderie [at the U of A]. I've been at Stanford, the University of Toronto, I've worked for companies, visited 50 other universities—I've never found the kind of cohesiveness I've found here."

Stephen Osadetz is a third-year arts student and part-time science writer for *Folio* and *ExpressNews* (<http://www.expressnews.ualberta.ca/expressnews/>). His writing position is funded by the Natural Sciences and Engineering Research Council and is part of a program called SPARK, which aims to involve students in the dissemination of research. To suggest story ideas, write Stephen at sosadetz@ualberta.ca. ■

Administration seeks input on ways to cut costs

Structural deficit needs to be addressed

By Richard Cairney

The news broke in early October when University of Alberta Provost and Vice President (Academic) Dr. Doug O'wram stood before the Board of Governors, addressing the university's financial situation. "There will be cuts," he warned.

Now, administration is asking faculties to cut base budgets by 4.4 per cent and administrative units to make overall cuts of six per cent by the 2005-06 budget year. And last week, U of A administrators issued a campus-wide bulletin to advise faculty and staff about efforts to balance its budget.

"Despite ongoing success, the University of Alberta currently faces significant budget challenges—not only in 2001-02 but also in the coming years," the e-mail from O'wram and Al O'Brien, acting Vice President (Finance and Administration) states. "The core operating budget which relies on unrestricted funding principally through government grants and tuition simply has not been adequate to meet our expenses."

The U of A has seen a \$5 million drop in investment income "and we are forecasting a \$7.9 million shortfall in provincial government utility funding," the letter continues. "We also expect the cost of employee benefits to be \$3.1 million over budget."

O'Brien says the financial situation the U of A faces "reflects underlying trends in our revenue and expenditure." The effect of those trends has been delayed in recent years by a strong economy. "What we have had over the past few years was a series of positive but largely temporary circumstances that have offset that normal kind of pressure on our fiscal situation," he said.

The university faces a "structural deficit," a situation which, simply put,

means costs are growing faster than revenues. In the normal course of events, as the university goes about its business and works to meet the goals it has set, expenses have outpaced income.

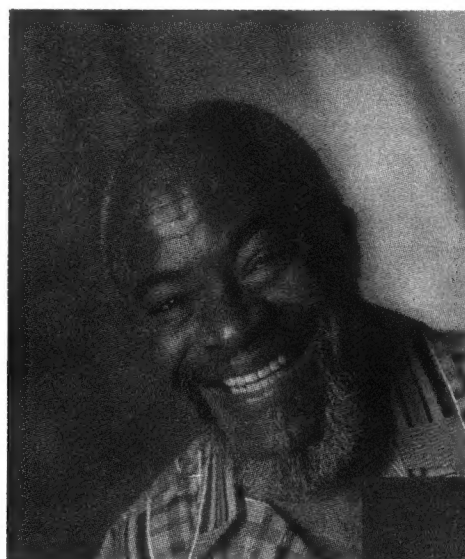
"The research and post-secondary sectors of the economy are growth sectors, and as in any other sector that is growing strongly, and where resources are in strong demand, we face cost pressures," O'Brien, adds. "Our normal growth of expenses tends to exceed our revenue growth." He says structural deficits can be managed by finding new sources of revenue and by cutting costs where possible.

O'wram says the university isn't facing anything like the deep cuts implemented during the early 1990s. He's concerned, though, that the situation could have a profound impact on morale, at a time when U of A pride is growing along with enrolments and research achievements.

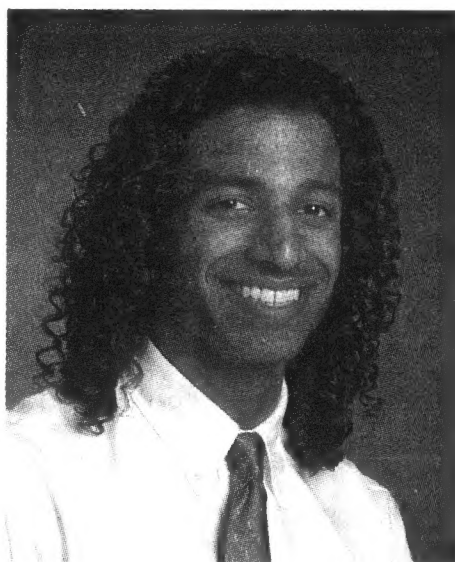
"We have been on a roll for the past couple of years, but some areas of campus haven't recovered from the cuts of the mid-'90s," he says. "We are not back into the mid '90s—we are not at that range of cuts, and we have to try to maintain some momentum. We don't want people falling into defensive mode."

In fact, the university has established a Funding Solutions Task Force (<http://www.creative.ualberta.ca/funding/>) which will hold focus groups as part of the effort to chart a course through the cuts.

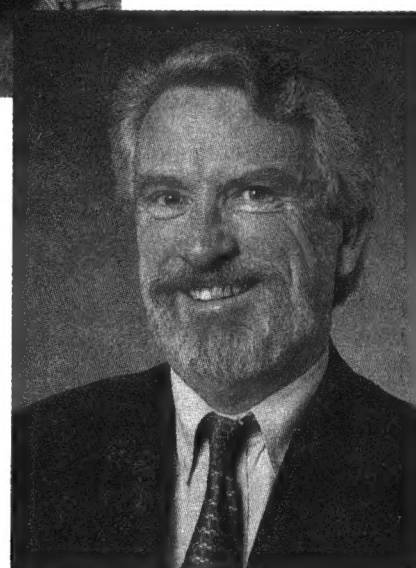
The university is consulting with the Academic Staff Association (AAS:UA), the Non-Academic Staff Association (NASA) and student associations to get ideas on ways to deal with the budgetary shortfall efficiently and with as little impact as possible on core activities or jobs. "Open communication on the budget is useful in itself, but we also hope that fresh perspectives might give us some new possibilities for savings," says O'wram.



Art Clarke



Chris Samuel



Doug O'wram

Carmichael says he can't see any fat to trim: "I think we have a very lean administration."

Students have a different viewpoint. Graduate Students' Association President Brad Wuetherick and Students' Union President Chris Samuel say the university spends too much money on administration, compared to other top-ranked universities. And among the same peer group, the two insist, the U of A spends far more money on outside consultants.

"I don't think drastic budget cuts benefit anyone," said Samuel. "But moderate

cuts can force efficiencies and cost savings and if you consider we out-spend other universities in those areas (consultants and administration) my recommendation is to reduce spending in those areas immediately."

Wuetherick predicts the savings will come from

many small changes. "Every unit is going to have to re-evaluate everything and ask, 'Is there a way to do this cheaper? Is there a way to save \$10,000 here, or \$10,000 there?' Maybe instead of going to Office Depot we'll end up going to Staples," he says.

"The streamlining is going to happen. Will it mean that there are layoffs? I really hope not. I hope departments are a lot more creative."

O'wram says that's the idea. And he says it's important the cuts don't affect any one group more than another. "It's important to preserve balance within the system, to ensure that different parts of the university all have the capability to carry on." ■

Telus Centre management restructured

'High level of risk' too much during economic downturn

By Richard Cairney

The University of Alberta is changing the way the Telus Centre for Professional Development is operated.

Since its opening, the high-tech centre had its own executive director and board of directors. But during the Jan. 18 meeting of the U of A Board of Governors, control of the centre changed hands.

"The effect of the downturn in the economy on the University of Alberta's budget has led to this recommendation," Dr. Doug O'wram, provost and vice-president (academic) told the board. While the centre had been "making progress" according to its own business plan, "the plan called for a higher level of risk than the university can sustain during a time of economic downturn," he added.

The board terminated U of A bylaws governing operation of the centre. Management of the facility has been transferred to the dean of the Faculty of

Extension.

Considered a showcase for the U of A, the centre offers unique professional development and e-learning opportunities. The centre is regarded as one of the most technically sophisticated facilities of its kind in Canada, boasting 48,000 square feet of high-tech conference and teaching space.

The Faculty of Extension will work with other faculties on campus to continue strengthening e-learning and professional programming at the U of A, utilizing the full range of technical capabilities the centre has to offer.

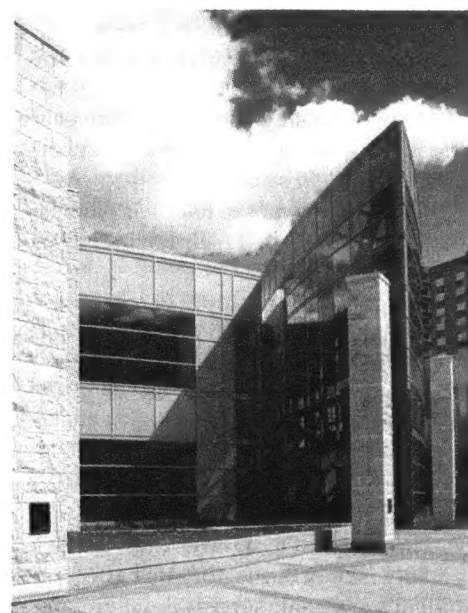
"The plan called for a higher level of risk than the university can sustain during a time of economic downturn."

—Dr. Doug O'wram, provost and vice-president (academic)

This change offers a number of advantages:

- Consolidating academic and information technology staff supporting e-learning and professional development will allow for improved programming at the Telus Centre and across campus.
- Opportunities to enhance existing programming, as well as develop new programming, enabling the University of Alberta to distinguish itself as a centre of excellence in e-learning and professional development.
- Operation costs will decrease as areas of duplication are eliminated.
- The university will be better able to position the centre as a key component of its overall internationalization strategy.

University administrators will monitor the centre's transition and progress and make final recommendations to the Educational Affairs Committee by September. ■



Management of the Telus Centre for Professional Development has been restructured.

message from the . president

Care of students leads to success

Key initiatives are focused on our students

By Dr. Rod Fraser

Over the next two months I want to talk to you about four of the University of Alberta's Key Strategic Initiatives. The four KSIs are: The University of Alberta will prepare our students for successful lives and careers as leaders of tomorrow; the University of Alberta will be a leader in the creation, integration, dissemination and application of knowledge; the university will achieve institutional excellence; and, the university will contribute to the needs of the community.

To carry out our vision "to be indisputably recognized nationally and internationally as one of Canada's finest universities and amongst a handful of the world's best," we want to have more than our "fair share" of outstanding students and students with outstanding potential from Alberta, Canada and around the world. Students are attracted to the University of Alberta both by the pursuit of new knowledge and by the opportunity to learn from one another.

Attracting outstanding students requires financial commitment. The university has given priority to providing

enhanced scholarship support to outstanding students, and bursary support to top students who require financial assistance. To achieve this, funds have been allocated from the operating budget for both scholarship and bursaries, and scholarships and bursaries have been identified as a major priority in the upcoming Capital Campaign, with a target of \$46 million.

We are committed to ensuring that each student develops fundamental skills for a productive career and a meaningful life, such as, but not limited to:

- Critical thinking (problem definition, analysis and problem resolution),
- Communication skills (written, oral and especially comfort and success in team work),
- Independent judgement,
- International experience,
- Information/communications technology,
- Development of the whole person,
- The ultimate desired outcome—the education of model citizens and leaders of tomorrow.

In order to ensure that each student's learning goals are achieved, we have undertaken an orientation program that enables all students to feel comfortable on campus. We want to ensure they succeed in their programs, and develop an abundance of whole-person extra-curricular activities to enhance the social, cultural and physical aspects of academic study.

As well, since 1996, we have implemented several initiatives to develop new information and telecommunications technology to enhance the students' learning environment. We have equipped four of our largest and most frequently used lecture theatres with state-of-the-art technology, and we are well on our way to having a highly wired campus.

Without exception, universities that are judged to be amongst a handful of the world's best are internationally vibrant learning and research environments, with faculty, staff and students who exhibit a curiosity of, and thirst to find out about the nature of communities throughout the world.

International students and faculty who

come to the University of Alberta not only receive an international experience of their own, but also provide an international learning environment for our students. A significant international experience can be found on campus, as well as through participation in exchanges and travel opportunities. Examples of recent internationalization activities include the continued operation of:

- Canadian Centre of Austrian and Central European Studies,
- Centre of Teaching Japanese Language and Culture,
- School in Cortona, Italy.

We are enhancing activity along the Rocky Mountains to Mexico and into South America, in Europe, and in East and Southeast Asia, including Japan, Korea, Hong Kong, Taiwan, mainland China and Singapore.

In next month's message I will talk about our second key strategic initiative which is: "The University of Alberta will be a leader in the creation, integration, dissemination and application of knowledge." ■



Failing students offered a fresh start

Rather than leaving, students will be encouraged to stay in school

By Richard Cairney

A new program to be launched this spring at the University of Alberta will give a helping hand to first and second-year students who are failing academically.

The Fresh Start program will provide some students who have received 'request to withdraw' notices an opportunity to find out why their grades suffered and to stay in school for at least another year to solve those problems.

Dr. Marsha Padfield, a professor and former associate dean in the Faculty of Physical Education and Recreation, has been appointed as academic advisor of the program.

"I see those students in my office every year in May, in tears, telling me what happened," Padfield said.

"They don't want to tell their parents; they don't want to tell their boyfriends or girlfriends."

The program will apply to some students who have earned a grade point average below 4.5 (out of nine) but not less than four in the faculties of Science, Arts, Agriculture, Forestry and Home Economics, Physical Education and Recreation, Education, and those studying at the Faculté Saint-Jean.

The program recognizes that "academic ability is only one factor" that affects a student's academic success or failure, Padfield said.

"Sometimes students in their first year simply get into the wrong faculty for the wrong reasons, or fall apart given the sudden independence many of them are experiencing for the first time in their lives."

— Dr. Larry McKill



Dr. Marsha Padfield will head up a new program that offers failing students a helping hand.

"These students are still finding their feet in the world. There is a lot more happening in life for them and when you add academics and put them on a campus with 30,000 people, yeah, some of them are going to stumble."

Dr. Larry McKill, associate dean of student programs in the Faculty of Arts, says the program will help students who find themselves enrolled in the wrong faculty. "Sometimes students in their first year simply get into the wrong faculty for the wrong reasons, or fall apart given the sudden independence many of them are experiencing for the first time in their lives."

"The university at first can be quite a cold and intimidating place," said Students' Union President Chris Samuel. "Unless the right support and services are offered to students, they can get lost."

The Fresh Start program "gives otherwise qualified students another opportunity to prove their academic merit...it gives them another opportunity to find a discipline they are interested in and they can succeed at," Samuel added.

The program will be offered to students this spring, said Padfield. Those students will be encouraged to enrol as open studies students and may be asked to sign

up for particular courses. If the student plans to return to the faculty they originally enrolled in, they may be required to take certain courses before they return.

Padfield may make certain demands, too. "If we find out their problem was an English-as-a-second-language problem, they'll have to solve that," she said. "And if their problem was that they froze up during exams, student services has some excellent courses on dealing with the stress of exams and they will be required to go there." ■

folio letters to the editor

Folio welcomes letters to the editor. Send your thoughts and opinions via e-mail to richard.cairney@ualberta.ca, fax at 492-2997, or by mail to Folio, Office of Public Affairs, 6th floor General Services Building, Edmonton, Alberta T6G 2H1. Letters may be edited for grammar, style, accuracy and length.

ExpressNews

your online news source

U of A news
every weekday...
on the Web...
www.ualberta.ca/ExpressNews/

Celebrities, politicians and the environment

Waterkeepers have a role to play in Alberta

By Dr. David Schindler

Alberta Minister of Environment Lorne Taylor was reported to be upset by the kickoff of a "Waterkeepers" group on the Bow River by Robert F. Kennedy Jr. and his celebrity friends, who raised money for the organization with a sports competition in Banff recently. It has become common for celebrities to help kick off political campaigns, sporting events and charity fundraisers. One must ask: why would there be objections to anyone raising funds for environmental protection?

In the spring of 2000, I was the co-organizer of an Ecosummit held in the federal parliament, designed to introduce parliamentarians to freshwater issues presented by scientific and medical experts on freshwater ecology and human health. Most of our scientific participants were members of the Royal Society of Canada. In order to attract media attention to the event, we invited Kennedy to address the parliamentarians about Waterkeepers during our evening reception. He generously agreed. Speaking to roughly 100 MPs and Senators, he described in graphic detail the role that residents along the Hudson and other American rivers had played in spotting polluters and assembling the necessary data for court actions.

Afterward, a few others and I had dinner with Kennedy and a few of his friends,

and we were able to find out more details about his organization. At that time, he reported that Waterkeepers had not lost a single court action. Kennedy is a university professor, and students in his department prepared the cases for prosecution, greatly reducing the costs of legal actions. I got the distinct impression that Waterkeepers had re-empowered citizens who were feeling helpless in their battle against water-polluting industries. At the time, Waterkeepers had just opened its first Canadian chapter, so it was unclear whether they would be as successful in this country, where weak environmental legislation allows federal and provincial ministers nearly unlimited discretion.

Alberta is an excellent venue for Waterkeepers. Water quality problems abound. Provincial government reports show water quality is extremely poor in streams, dugouts and shallow groundwaters in agricultural areas of the province. Yet there are plans afoot for massive increases in the intensity of agriculture, including intensive livestock "factories." Rural citizens as well as environmentalists feel threatened and helpless. Diversion of water from the Bow River for irrigation has caused fish kills in recent years, as oxygen was depleted in the remaining stream. In short, the legislation, which



Research has shown the quality of Alberta's fresh water is poor. Any efforts to protect it should be welcomed.

Taylor characterized as "strong," does not seem to be particularly well enforced.

I am not a fan of litigation as a solution for environmental problems. But the mere threat of court action posed by Waterkeepers in Alberta may act as a deterrent, reminding ministers that they are responsible for protecting the interests

of Canadians and Albertans, not just promotion of industry.

(Dr. David Schindler is a biological sciences professor at the University of Alberta. In 2001 he won the NSERC Gerhard Herzberg Gold Medal, which comes with \$1 million for research and is commonly regarded as the highest honour for scientists in Canada.) ■

Canadian reproductive technology law: a step backwards

Reliance on criminal bans unnecessary

By Dr. Timothy Caulfield

The latest chapter in the long saga of Canada's proposed reproductive technology law came last month when the federal Standing Committee on Health released its long awaited report. The proposed law was released in May 2001 and the standing committee had been hearing testimony from experts and public representatives. The report represents the conclusion of its deliberations. For me, the report comes as a grave disappointment—primarily because of the continued reliance on criminal law.

Let's consider a few facts. First, criminal law is the state's most severe regulatory tool. As noted by several federal law commissions, it should be used as sparingly as possible. For example, it is axiomatic that criminal prohibitions should be reserved for areas where there is a high degree of social consensus.

Second, there seems little doubt that a majority of Canadians strongly support most research that involves human reproductive material—such as stem cell research—so long as there is appropriate regulatory oversight. In fact, recent survey research has shown most Canadians support research involving embryos and, even, therapeutic cloning—an activity that the proposed law and the standing committee would criminally ban.

Third, there is no consensus in the academic community regarding the appropriateness of criminal bans. I know that the committee heard from numerous scientists, legal scholars and ethicists who spoke against the use of criminal bans. Given this degree of divergence in expert opinion, the committee's unequivocal support of criminal law is hard to understand.

Fourth, the committee was made aware of a regulatory option which, I believe, would be more effective than

criminal law at stopping unwanted activities and would still have the flexibility necessary to accommodate the inevitable changes that will occur in both the science and society. Briefly, this would involve the creation of an expert regulatory body, as has been done in the UK, with the power to make rules and change them in response to emerging science and social controversy.

Fifth, the relevant science was explained to the committee by many respected researchers and clinicians. The committee was told of the promise of both embryonic and adult stem cells. In fact, I was there when Janet Rossant, one of Canada's leading stem cell researchers, eloquently and measuredly explained the scientific and therapeutic justifications for embryonic stem cell research and therapeutic cloning. The report leaves you with the impression that the committee either didn't understand Dr. Rossant or its members simply believe she's got her scientific facts wrong.

Given the above, how and why did the standing committee embrace the use of criminal prohibitions? Why did it reject the more flexible approach recommended by entities such as the Canadian Bar Association? The report is less than clear. However, the committee does provide a few explanations for each of the recommended prohibitions. Let's consider the justifications presented for the prohibition against therapeutic cloning.

Therapeutic cloning uses human stem cells and somatic cell nuclear transfer, the technique used to create Dolly the cloned sheep. Scientists hope the process can be

used to grow tissue that has the same genetic makeup as a patient who is in need of an organ transplant, thus lowering the chance of tissue rejection.

For example, therapeutic cloning might be used to grow a pancreatic islet for an individual suffering from diabetes. The technique is controversial and not all scientists agree that the technique is need-

ed or even feasible, but the possibility of huge therapeutic benefit is real.

The committee says we should ban therapeutic cloning because it is unsafe and has the potential to commodify human reproductive material. Though both are legitimate concerns, they are hardly justifications for criminal bans. Do we criminally ban all medical procedures that are potentially dangerous? No, we regulate the use of the procedure, balancing

risk against benefit.

Do we criminally ban all activities that have the potential to commodify human tissue? The argument apparently adopted by the committee is that therapeutic cloning may lead to the sale of human eggs and embryos—potentially needed in the therapeutic cloning process. This is a valid concern. However, a criminal ban on the technique itself is completely misplaced. The law should focus on the inappropriateness of buying and selling human reproductive material and not on a process that has the potential to have real benefit.

Did we criminally ban kidney transplantation because it has potential to commodify human kidneys? No. We developed a set of provincial Human Tissue Gift Acts that control the buying and selling of

But instead of a nuanced and informed discussion of the regulatory challenges created by reproductive technologies, we got a little more than a recitation of unsupported bioethic clichés.

human tissue.

Do we criminally ban all reproductive technologies, from sperm donation to in-vitro fertilization because the process may commodify reproductive material? No, we seek to stop, as the proposed law already does, the inappropriate buying and selling of human gametes and embryos.

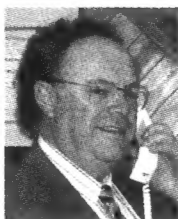
It is important to note how strongly the committee felt about the need for criminal bans—a point it makes several times throughout the report. But where did this strong feeling come from? Given the weakness of the committee's explicit justifications and the existence of more effective regulatory alternative, I am forced to assume that the committee's conclusions are based on a "gut" reaction to the technology.

After eight months of deliberation, and after hearing from hundreds of experts, I had high hopes for this report. But instead of a nuanced and informed discussion of the regulatory challenges created by reproductive technologies, we got a little more than a recitation of unsupported bioethic clichés.

Canadian society is entering an era when it will need to deal with more and more complex and controversial scientific issues. We need to be prepared to make informed, creative policy decisions. This report demonstrates that we are not yet prepared or willing to deal with these issues in a rational and thoughtful manner. As my colleague, Moe Litman said after reading the report: "Welcome to the flat Earth society!"

(Tim Caulfield is the Canadian Chair of Health Law and Policy. He is also the research director of the University of Alberta Health Law Institute and is co-editor of the Health Law Journal and the Health Law Review, both published by the Health Law Institute.) ■

Paul Lorieau's University Optical



"We value your eyes, and we'll prove it by offering the very best in optical care at everyday low prices."

433-5500

Conveniently located in College Plaza
11170 - 82 Avenue, Edmonton, AB T6G 2L8

BACK BASICS Massage Therapy



Pain relief through European alternatives; heat, massage, chirogymnastics and interferential electro-therapy.

Maria Krieg
11610-75 Avenue
Edmonton, AB
☎ (780) 436-8059
#118186

Check your benefit plan for coverage.

TOTAL CARE FOR
BACK & SPINE

Did you know?

Winter is the best time to remove a roof and renovate as snow is easier to manage than rain. Trades people are more readily available during the winter months.

We like winter.

*31% of Canadian home owners would rather renovate than move. —CMHC



459-2011 Since 1981
Bonded-Licensed-BBB Member
Insured-References-Free in-home estimates

Quality Service Guaranteed

WELCOME NEW STAFF!!

You are invited to attend the
Orientation to the University
on

Wednesday, February 27, 2002 from 11:30 am to 4:30 pm
(includes buffet lunch)

Meet other staff and gather information to assist you with a smooth integration into the University community.



All staff at the University of Alberta are welcome to attend.

For a registration package or to get more information, please contact:

Christine LeLachur
Staff Learning and Development
Phone: 492-7126

E-mail: christine.lelachur@hrs.ualberta.ca

Space is limited. Deadline for registration: February 15, 2002.

WHAT TO DO DURING A TORNADO



IF YOU ARE IN A BUILDING:

- ☐ Go to the basement. If there isn't one, crouch or lie flat (under heavy furniture) in an inner hallway or small inner room away from windows.
- ☐ Stay away from large halls, arenas, shopping malls and other big buildings because their roofs could collapse.

IF YOU ARE CAUGHT OUTSIDE:

- ☐ If there is no shelter, crouch down in a ditch or ravine.

IF YOU ARE DRIVING:

- ☐ Get out of and away from the car. It could be blown through the air, or roll over on you.

FOR MORE INFORMATION ON
DISASTERS, CALL YOUR LOCAL
CANADIAN RED CROSS OFFICE OR
EMERGENCY PREPAREDNESS CANADA.



Canadian Red Cross

ORGANIC CHICKEN AND BEEF: Our animals are raised from birth in their natural environment and this goodness is passed on to you. Full of flavor and nutrition, the Health benefits are abundant. All animals are grown in humane conditions-free of chemicals and growth promotants. We welcome visitors and offer delivery in Edmonton.

SUNSHINE ORGANICS
Sherry (780) 848-2288
Roxane (780) 438-6271
sunorg@telusplanet.net

talks & events

Submit talks and events to Cora Doucette by 9 a.m. one week prior to publication. Fax 492-2997 or e-mail at cora.doucette@ualberta.ca.

EVERY THURSDAY UNTIL APRIL, 2002

The Campus Observatory, roof and 7th floor of the Physics Building, is open for the 2001-2002 academic year. Open to everyone on Thursday evenings (except exam and holiday periods) beginning at 8:00 p.m. Special nighttime or daytime group visits can be arranged for other days and times. The Observatory will be open regardless of weather conditions. On cloudy nights a slide show can be substituted for telescopic observing. Reservations not required. For additional information, please contact Adam Pigeon, S.P.A.C.E. (Students Promoting Astronomy Culture and Education) - new club formed by the undergraduate student volunteers, apigeon@ualberta.ca, or Doug Hube, 492-5410, or Sharon Morsink, 492-3987.

THURSDAY EVENINGS

Spanish Language Cafes. Parkallen Pizza, 8424 - 109 Street (not the original Parkallen restaurant, but their new pizzeria branch). Who's invited? Students at all levels, from beginner to advanced. Casual and practical conversation in an informal atmosphere. 7:00 p.m.

FROM NOW THROUGH MARCH 1, 2002

Bruce Peel Special Collections Library. "James Joyce & Virginia Woolf: An Exhibition honouring the 60th anniversary of their deaths." Lower level, Rutherford South, 8:30 to 4:30, Monday to Friday, closed weekends. For more information, please phone 492-5998.

JANUARY 15 TO JANUARY 27, 2002

Exhibition. Metal Health: Linda Maines MFA Sculpture. This exhibition is the final presentation for the degree of Master of Fine Arts in Sculpture. Gallery hours: Tuesday to Friday, 10:00 a.m. to 5:00 p.m. Sunday, 2:00 to 5:00 p.m. Closed Mondays, Saturdays and Statutory Holidays. FAB Gallery, 89 Avenue and 112 Street.

JANUARY 22 TO MARCH 26, 2002

Student Counselling Services. "Developing Relaxation Strategies." Student Counselling Services offers an 8-session group to those who are interested in developing various relaxation techniques. Location: Student Counselling Services, 2-600 Students' Union Building. Tuesdays from 11:00 to 11:50 a.m. Please note: Participants must register in advance and meet with the facilitator prior to the start of the group. Visit Web site at www.ualberta.ca/~uscs for more information, or call 492-5205.

JANUARY 23 TO MARCH 20, 2002

Student Counselling Services. "Social Anxiety and Shyness Group." Student Counselling Services will be offering an 8-session group to those who are individuals who struggle with social anxiety and shyness. Location: Student Counselling Services, 2-600 Students' Union Building. Wednesdays from 2:00 to 4:00 p.m. Please note: Participants must register in advance and meet with the facilitator prior to the start of the group. Visit Web site at www.ualberta.ca/~uscs for more information, or call 492-5205.

JANUARY 25 TO MARCH 22, 2002

Student Counselling Services. "Developing Relaxation Strategies." Student Counselling Services will be offering an 8-session group to those who are interested in developing various relaxation strategies. Location: Student Counselling Services, 2-600 Students' Union Building. Fridays from 10:00 to 10:50 a.m. Please note: Participants must register in advance and meet with the facilitator prior to the start of the group. Visit Web site at www.ualberta.ca/~uscs for more information, or call 492-5205.

JANUARY 25, 2002

International Centre. Learn Spanish in Mexico! Summer program information session at the International Centre, 172 HUB International. 12:00 noon.

Department of Biological Sciences. Ecology Seminar Series (part of the Biology 631 Seminar Series). Pete Hurd, "Communication, Aggression, Lizards and Game Theory." BS M-149, Biological Sciences Building. 12:00 noon.

Career and Placement Services. Workshop "So you want to be an academic." New for graduate students! Noon to 2:00 p.m., 4-02 Students' Union Building. Workshop fees range from just \$10 to \$20. Pre-register at CaPS, 2-100 Students' Union Building. For a complete listing of upcoming events, check out Web site at www.ualberta.ca/caps

Department of Earth and Atmospheric Sciences. ATLAS Seminar. Dr. Roxanne Lalonde from the Department of Earth and Atmospheric Sciences will present "From Stockholm to Johannesburg via Rio de Janeiro: three decades of international environmental management." Room 3-36 Tory Building. From 3:00 to 4:00 p.m.

Department of Physiology. Dr. Alison Buchan, Department of Physiology, University of British Columbia, speaking on "Are gastric cell lines suitable models to evaluate the effects of Helicobacter pylori?" Room 207, Heritage Medical Research Centre. 3:00 p.m.

Department of Physics. Colloquium. Dr. J. Michael Roney, "How Beauty Looks in a Cracked Anti-Mirror: Observation of CP Violation in the Neutral B Meson System." Room V-129 Physics Building. 3:30 p.m.

Department of Biological Sciences. Genetics 605 Seminar Series. Molecular Biology and Genetics Research Group. Dr. Ian MacDonald, Department of Ophthalmology, U of A, speaking on "Macular degeneration: From gene to clinical trial." M-149 Biological Sciences Building. 4:00 p.m.

Department of Music. Faculty and Friends. The Eastwest Quartet. Allison Storochuk, clarinet; Clemens Markel, violin; Isabelle Bozzini, cello; Roger Admiral, piano. Admission: \$7/student/senior, \$12/adult. Convocation Hall, Arts Building. 8:00 p.m. All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information.

Department of Philosophy. Dr. Susan Babbitt of Queen's University speaks on "Philosophy's Role in Interdisciplinary Debates: The Case of Development Studies." Alumni Room, Students' Union Building. From 7:00 to approximately 9:00 p.m. Social to follow.

JANUARY 26, 2002

Career and Placement Services. Workshop "Resume and Cover Letter Writing for Education Students." 9:00 a.m. to Noon, 4-02 Students' Union Building. Workshop fees range from just \$10 to \$20. Pre-register at CaPS, 2-100 Students' Union Building. For a complete listing of upcoming events, check out Web site at www.ualberta.ca/caps

Career and Placement Services. Workshop "Interview Skills for Education Students." 1:00 to 3:30 p.m., 4-02 Students' Union Building. Workshop fees range from just \$10 to \$20. Pre-register at CaPS, 2-100 Students' Union Building. For a complete listing of upcoming events, check out Web site at www.ualberta.ca/caps

Academic Support Centre. Workshop for students. "Study Strategies & Exam Preparation." 10:00 a.m. to 3:30 p.m. \$50. Call to register. 492-2682.

U of A Philosophers' Café: an opportunity for the public to engage in informal, lively conversation about philosophical or topical issues. Topic: "Big Brother's Toys: Are we trading privacy for new technology?" Guest scholar: Kevin Haggerty, Professor of Sociology. Moderator: Bernard Linsky, Chair, Department of Philosophy. From 2:00 to 3:30 p.m. Nina's Restaurant, 10139 - 124 Street.

JANUARY 28 TO FEBRUARY 1, 2002

International Week. "Living as if the Planet Matters." International Week 2002 will feature workshops, lectures, panel discussions, and films. The Week will kick off in a dance of rhythmic melodies by the U of A West African Music Ensemble on Friday, January 25, at 12 noon in front of the mural in HUB Mall. Monday, January 28, is a one-day forum, "Global Water Crises: We All Live Downstream." Keynote speakers for Monday evening are Dr. David Schindler and Maude Barlow. Full details of the program are available from the International Centre, 492-2692, or at www.international.ualberta.ca/iweek.

JANUARY 28, 2002

Department of Music. Noon-Hour Organ Recital. The recital presents a variety of organ repertoire played by students, faculty and guests of the University of Alberta Department of Music. Free admission. Convocation Hall, Arts Building. 12:00 noon. All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information.

Computing Science Department. Distinguished Lecture Series. Professor Laurie J. Hendren, School of Computer Science, McGill University, speaking on "Analyzing and Decompiling Java Bytecode." Room 243, Central Academic Building. 3:30 p.m. Refreshments at 3:00 p.m.

Department of Pharmacology. Seminar by graduate students Puja Sapra, "Targeting of immunoliposomal anticancer drugs to hematological malignancies" and Greg Charrois, "Tissue accumulation of doxorubicin from Stealth liposomes: implications for

toxicity and therapeutic activity." Room 9-68 Medical Sciences Building. 4:00 p.m.

Global Water Crises: A Forum. This International Week 2002 Forum will examine issues of health, quality, rights and conflict over water in global, national and local settings. Speakers are experts and activists from across Canada and the Ivory Coast. Location: TELUS Centre. From 8:00 a.m. to 5:00 p.m. For more information, contact Nancy Hannemann, International Centre, nancy.hannemann@ualberta.ca

Career and Placement Services. Language and Linguistics Career Forum. A panel of guest speakers from leading companies discuss what it takes to excel in a particular field or discipline. Take part in this great networking opportunity! Tory Lecture Theatre, B-2. From 5:00 to 7:00 p.m. Tickets are just \$4 if you pre-register at CaPS, 2-100 Students' Union Building. For more information call 492-4291 or check Web site www.ualberta.ca/caps

International Week. "Living as if Water Matters." In this International Week keynote address, Dr. David Schindler will speak on "The Myth of Abundance: Freshwater Quantity and Quality in Canada in the 21st Century." Maude Barlow will speak on "Blue Gold – Who Will Control the World's Freshwater Resources?" Music by Asani, an Aboriginal women's vocal ensemble. Myer Horowitz Theatre. From 7:00 p.m. to 9:00 p.m.

JANUARY 29

Faculty of Law. The Merv Leitch, Q.C. Memorial Lecture and Scholarship Presentation. Title: "Chiselled in Stone: Does Canada's New Constitution limit its options for the future?" Delivered by Professor Harry Arthurs, Professor of Law, Osgoode Hall Law School, Former President, York University, 2002 Merv Leitch QC Visiting Chair in Law. Refreshments will be served. RSVP, if attending: 492-5590, email: sparr@law.ualberta.ca Everyone Welcome. From 12:00 noon to 1:00 p.m., 237 Law Centre.

Department of Music. Strings Masterclasses. Visiting Artists "The Eden Trio." Andrew Dawes, violin, Rivka Golani, viola; Yehuda Hanani, cello. Admission: \$15 at the door. For more information call 492-9410. From 9:30 a.m. to 3:30 p.m. Convocation Hall, Arts Building.

International Week. Keynote address: "Blackfoot Relationship with Nature." Allan Wolf Leg will present the Siksika, or Blackfoot, worldview on the state of being, the relationship of space and history, and the interrelationship of all elements. Myer Horowitz Theatre. From 7:00 to 9:00 p.m.

Academic Support Centre. Workshop for students. "Exam Preparation." 1:00 to 2:30 p.m. \$20. Call to register: 492-2682.

Career and Placement Services. "Economics Career Forum." A panel of guest speakers from leading companies discuss what it takes to excel in a particular field or discipline. Take part in this great networking opportunity! Location: 1-93 Tory Building. From 3:30 to 5:30 p.m. Tickets are just \$4 if you pre-register at CaPS, 2-100 Students' Union Building. For more information call 492-4291 or check Web site www.ualberta.ca/caps

JANUARY 30

International Week. An International Week Presentation in Co-operation with the Faculty of Nursing. Dr. Marilyn Douglas, Veterans Affairs Palo Alto Health Care System, Palo Alto, California, and University of California, will speak on "The Effect of Globalization on Health Care." Bernard Snell Hall, Walter Mackenzie Health Sciences Centre. From 12:00 to 1:00 p.m.

Lunch and Learn Presentation. "Humor." Presenter: Brian Forbes, Wilson Banwell and Associates. Presented by the Health Recovery Support Unit. Location: Heritage Lounge, Athabasca Hall. From 12:00 p.m. to 1:00 p.m. Cost: Free! Snacks and beverages will be provided. To register or for more information contact Sarah Treby at 492-0659 or email: sarah.treby@hrs.ualberta.ca or visit Web site www.hrs.ualberta.ca/efap/news for an updated list of all workshops and other offerings.

Career and Placement Services. "History and Classics Career Forum." A panel of guest speakers from leading companies discuss what it takes to excel in a particular field or discipline. Take part in this great networking opportunity! Location: 1-91 Tory Building. From 3:00 to 5:00 p.m. Tickets are just \$4 if you pre-register at CaPS, 2-100 Students' Union Building. For more information call 492-4291 or check Web site www.ualberta.ca/caps

Academic Support Centre. Workshop for students. "Exam Preparation." 4:00 to 5:30 p.m. \$20. Call to register: 492-2682.

Career and Placement Services. Workshop "Building a Teaching Portfolio." 4:30 to 6:00 p.m., 4-02 Students' Union Building. Workshop fees range from just \$10 to \$20. Pre-register at CaPS, 2-100 Students' Union Building. For a complete listing of upcoming events, check out Web site at www.ualberta.ca/caps

Career and Placement Services. Workshop "The Summer Work Search." 5:00 to 6:30 p.m., 2-100 Students' Union Building. Workshop fees range from

just \$10 to \$20. Pre-register at CaPS, 2-100 Students' Union Building. For a complete listing of upcoming events, check out Web site at www.ualberta.ca/caps

International Week. "Living as if Forests Matter." Speakers will be Randy Hayes, Founder and Director of the Rainforest Action Network, an organization headquartered in San Francisco, and Colleen McCrory, Executive Director of the Valhalla Wilderness Society in British Columbia. Myer Horowitz Theatre. From 7:00 to 9:00 p.m.

JANUARY 31

Department of Renewable Resources. Dr. Marty Luckert from the Department of Rural Economy, U of A, presents: "Forestry Where the Stakes are High: Household Livelihoods in Southern Africa." Wyatt Lecture Room, 236 Earth Sciences Building. From 12:30 to 1:50 p.m.

Department of History and Classics. Dr. Vladimir Degoev, Tompkins Fellow, U of A, will speak on "Alliances and Counter-Alliances in Post-Soviet Political Space: The Case of G.U.U.A.M. (Georgia-Ukraine-Uzbekistan-Azerbaijan-Moldova)." Room 2-58 Tory Building. 3:30 p.m.

Career and Placement Services. "Physical Education and Kinesiology Career Forum." A panel of guest speakers from leading companies discuss what it takes to excel in a particular field or discipline. Take part in this great networking opportunity! Location: 107 Education Building. From 3:00 to 5:00 p.m. Tickets are just \$4 if you pre-register at CaPS, 2-100 Students' Union Building. For more information call 492-4291 or check Web site www.ualberta.ca/caps

Career and Placement Services. Workshop "Career Decision-Making Strategies." 5:00 to 8:00 p.m., 2-100 Students' Union Building. Workshop fees range from just \$10 to \$20. Pre-register at CaPS, 2-100 Students' Union Building. For a complete listing of upcoming events, check out Web site at www.ualberta.ca/caps

Centre for Research on Literacy and Centre for Research for Teacher Education and Development invite you to a seminar discussion with Dr. Michael Pressley, University of Notre Dame, speaking on "Comprehension Instruction: Then and Now." Room 651a Education South. 4:30 p.m.

Environmental Research and Studies Centre. Dr. Nigel Roulet, McGill University, speaking on "Peatlands: Their role in the global carbon cycle and their link to climate." Alumni Room, Students' Union Building. 4:30 p.m.

International Week. "Protecting the Planet: Options for Action." Speakers are Isabel Altamirano and Dr. Virginia Cawagas of the University of Alberta and journalist Andrew Nikiforuk, the author of "Saboteurs: Wiebo Ludwig's War Against Big Oil." Myer Horowitz Theatre. From 7:00 to 9:00 p.m.

FEBRUARY 1

"Extreme Cryobiology: Freezing Tissues." Fourth annual symposium of low temperature biology. Anyone interested in low temperature biology, especially grad students, are encouraged to attend. Special guest lecture will be given by Dr. Owen Beattie from the department of anthropology. If you are interested in giving a 10 minute presentation, attending the symposium or would like more information, please contact Heidi Elmoazzen at 431-8763 or email at helmoazz@ualberta.ca. Telus Centre. From 9:00 a.m. to 5:00 p.m.

Faculty of Nursing presents "Ghana the First Class: the Development of the M.Phil Program." Education South, Room 165. From 10:00 a.m. to 11:00 a.m. Dr. Rene Day, Dr. Peggy Anne Field, Dr. Linda Ogilvie, and Dr. Vicki Strang.

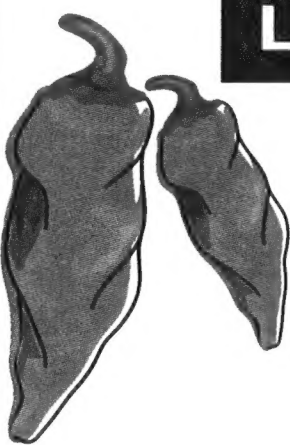
Canadian Blood Services. Are you curious about your blood type? If so, Canadian Blood Services will be holding a "What's Your Type?" clinic at the Students' Union Building. From 10:00 a.m. to 3:00 p.m. The test is free, requires two drops of blood (from a finger poke), and only takes two minutes.

Department of Biological Sciences. Ecology Seminar Series (part of the Biology 631 Seminar Series). Nigel Roulet, "Contemporary and past carbon exchange in peatlands: are they the same?" BS M-149, Biological Sciences Building. 12:00 noon.


Career and Placement Services. CaPS, CIBS, International Centre. Co-hosted workshop. "Career moves international: the key steps and more." Jean-Marc Hachey, visiting authority on international careers, explains and demonstrates the differences between looking for a Canadian job and searching for international work experience. Noon to 1:15, Part 1. From 1:30 to 3:00 p.m., Part 2. Graduates Lounge, 4th Floor, School of Business Building. Admission is Free; however, please pre-register at CaPS, 2-100 Students' Union Building. For further information please contact Career and Placement Services, 492-4291.

Earth and Atmospheric Sciences. ATLAS Seminar. Alex MacNeil from the Department of Earth and Atmospheric Sciences will present "Depositional and diagenetic history of the Pliocene Pedro Castle Formation: an isolated carbonate bank deposit in the British West Indies." Room 3-36 Tory Building. From 3:00 to 4:00 p.m.

L'EXPRESS



We will cater your meeting, luncheon, or special functions. Quality and affordable catering on campus. Charge your catering to your University account!



All general and catering information may be obtained at:
 Telephone (voice mail) **492-2090**
 e-mail: lexpress@su.ualberta.ca
www.su.ualberta.ca/lexpress

THE CAMBIE
INTERNATIONAL HOSTELS



VANCOUVER AND THE ISLAND

Special Winter Deals!

PACKAGE INCLUDES:
LIFT TICKET,
ACCOMMODATIONS
AND LEGENDARY
HOT BREAKFAST!
TRANSPORTATION
NOT INCLUDED

stay @ Mt. SEYMOUR ~~from \$42.99~~

stay @ WHISTLER-BLACKCOMB ~~from \$79~~

3 GREAT LOCATIONS

VANCOUVER - GASTOWN
Free muffin with coffee or tea daily
Best grill / pub / bakery in the city
In the heart of the funky part of town
300 CAMBIE ST. (604)684-6466
TOLL FREE 1-877-395-5335

VANCOUVER - SEYMOUR
Quiet location near business district. Kitchens.
Dbl. Rooms. Free muffin with coffee or tea daily
515 SEYMOUR ST. (604)684-7757

NANAIMO - VANCOUVER ISLAND
Free hot breakfast with check-in. Private bathrooms.
Kitchens. Funky grill / pub / bakery on-site.
63 VICTORIA CRESCENT 1-877-754-5323

RATES CENTRAL
* FROM DOWNTOWN
\$17.50! * WEEKLY RATES
* OCTOBER THRU APRIL * 24-7 ACCESS
* INTERNET ACCESS
* COMMON ROOM

FREE PICK-UPS IN VANCOUVER

VISIT US ON THE WEB AT www.cambiehostels.com

THE FACULTY OF LAW INVITES YOU TO A FREE PUBLIC LECTURE

TUESDAY, JANUARY 29, 2002
12noon-1:00pm, 237 LAW CENTRE

The Merv Leitch, Q.C. Memorial Lecture
"CHISELLED IN STONE: DOES CANADA'S NEW CONSTITUTION LIMIT ITS OPTIONS FOR THE FUTURE"

delivered by
PROFESSOR HARRY ARTHURS
 Professor of Law, Osgoode Hall Law School
 Former President, York University
 2002 Merv Leitch QC Visiting Chair in Law

RSVP, if attending: 492-5590, email: sparr@law.ualberta.ca

EVERYONE WELCOME!

There are easier ways to plan a conference...

Who does registration?

Meeting Rooms... What are my options?

Book

Accomm. Find a caterer...

Help!

Let us help you make sense of conference planning.

U of A Conference Services
 44 Lister Hall
 Edmonton, AB T6G 2H6
 Toll Free: 1.800.615.4807
 Fax: 780.492.7032
conference.services@ualberta.ca
www.hfs.ualberta.ca



CONFERENCE SERVICES
 492.4281

We've Changed.....



BROADEN YOUR MIND, EXPERIENCE CANADA

Summer Language Bursary Program

Interested in travelling and learning a second language? Apply for a bursary and enjoy a five-week intensive immersion course. Sessions are offered in the spring and summer at many educational institutions across Canada.

Official-Language Monitor Program

Looking for work experience? Become an Official-language monitor. Work part-time while you are a postsecondary student or full-time in another part of Canada if you are a recent graduate. You will gain valuable work experience in the classroom and become a cultural ambassador.

How to apply

Apply on-line at www.cmec.ca/olp/, or call 1-877-866-4242.

Application deadline is February 15, 2002.

Ces renseignements sont également disponibles en français.



Conseil des ministres de l'Éducation (Canada)
Council of Ministers of Education, Canada



Patrimoine Canadien
Canadian Heritage



Building Canada's Global Future

J. ARMAND BOMBARDIER INTERNATIONALIST FELLOWSHIPS

25 Fellowships of \$10,000 each
First Competition — Academic Year 2002/03

Application Deadline: March 1, 2002

Guidelines and application forms: <http://www.cbie.ca/canstu.html>

Open to all disciplines of study, the goal of the fellowships is to build a cadre of young Canadians who can play a leading role in today's knowledge-based global economy and thus contribute to the prosperity of Canada and to society worldwide. Interested candidates must hold at least one university degree, show outstanding academic performance as well as personal suitability and present a clear study plan or a combination of study and research or work at an institution abroad.

Fellowships are sponsored by J. Armand Bombardier Foundation, a private foundation created in 1965 to perpetuate the memory of the life, achievements, and social and humanitarian work of Joseph Armand Bombardier. The program is managed by the Canadian Bureau for International Education (CBIE).

For further information, please contact:
J. Armand Bombardier Internationalist Fellowships
Canadian Bureau for International Education
220 Laurier Avenue West, Suite 1100
Ottawa, Ontario K1P 1Z9
Tel: (613) 237-4820, ext. 234
Fax: (613) 237-1073
E-mail: SMelanson@cbie.ca



BCEI
Bureau canadien de
l'éducation internationale



Department of Physiology. Dr. Harold Atwood, Department of Physiology, University of Toronto, speaking on "Synaptic transmission analyzed in the fruit fly, *Drosophila*." Room 207 Heritage Medical Research Centre. 3:00 p.m.

Centre for Research on Literacy. Literacy Research Seminar Series. Dr. Dorothy Steffler, SSHRC Post-Doctoral Fellow, Centre for Research on Literacy, will present "Is Implicit Learning of Orthographic Patterns Indicative of Spelling Ability? Grade Five Students' Implicit and Explicit Knowledge of the Doubling Rule in Spelling." Room 651a Education South. 3:00 p.m.

St. Joseph's College President's Lecture Series. Public Lecture, "Reconciliation between the Church and First Nations People." Fr. Daryold Winkler, csb, Theologian, Doctoral Candidate, St. Paul University, Ottawa. Responding: Ms. Maire Anderson-McLean, Anthropologist, Doctoral Candidate, University of Alberta. Room 2-115 Education North. 7:30 p.m. For further information call 492-7681.

International Week Concert. "Rhythms of the Planet." Tune in to the rhythm of the planet; feel the drum pulses from Africa, Brazil, Canada and Latin America. Share the experience with Buffalo Tail Productions, Capoeira, the Drumcan Man, the Okoto Dancers and Tilo Paiz with Viajante. Tickets to the concert are available at a cost of \$8/students and \$10/non-students. Myer Horowitz Theatre. For more information, please contact Nancy Hannemann, International Centre, 492-5962.

FEBRUARY 2

Academic Support Centre. Workshop for students. "Study Strategies & Exam Preparation." 10:00 a.m. to 3:30 p.m. \$50. Call to register: 492-2682.

Career and Placement Services. Workshop "Creating Resumes and Cover Letters that Work!" 9:00 a.m. to Noon, 4-02 Students' Union Building. Workshop fees range from just \$10 to \$20. Pre-register at CaPS, 2-100 Students' Union Building. For a complete listing of upcoming events, check out Web site at www.ualberta.ca/caps

Career and Placement Services. Workshop "Interview Skills." 1:00 to 3:30 p.m., 4-02 Students' Union Building. Workshop fees range from just \$10 to \$20. Pre-register at CaPS, 2-100 Students' Union Building. For a complete listing of upcoming events, check out Web site at www.ualberta.ca/caps

Devonian Botanic Garden. Seedy Saturday. Vendors of Heritage, open pollinated, and native seeds will be on site to discuss their seeds and questions. Seed swap tables available. Free lectures. Admission \$2.00 per person. Free (Children under 4 years). From 10:00 a.m. to 3:00 p.m. Contact Linda Hewlett or Dianne Allen for further information at (780) 987-3054.

FEBRUARY 3

Career and Placement Services. Workshop "Resume and Cover Letter Writing for Education Students." 9:00 a.m. to Noon, 4-02 Students' Union Building. Workshop fees range from just \$10 to \$20. Pre-register at CaPS, 2-100 Students' Union Building. For a complete listing of upcoming events, check out Web site at www.ualberta.ca/caps

CAMPUS TOWER SUITE HOTEL

EDMONTON, ALBERTA
IN THE HEART OF THE UNIVERSITY OF ALBERTA



★ \$84.00 single person per room/per night
Executive Suites from \$129 single

11145 - 87 Avenue, Edmonton, Alberta
Tel: 780.439.6060 Fax 780.433.4410
Toll Free: 1.800.661.6562
E-mail: info@campustower.com
www.campustower.com



Career and Placement Services. Workshop "Building a Teaching Portfolio." 1:00 to 2:30 p.m., 4-02 Students' Union Building. Workshop fees range from just \$10 to \$20. Pre-register at CaPS, 2-100 Students' Union Building. For a complete listing of upcoming events, check out Web site at www.ualberta.ca/caps

FEBRUARY 4

Department of Music. Noon Hour Organ Recital. Visiting Artist Craig Scott, organ. Free admission. All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information. Convocation Hall, Arts Building. 12:00 p.m.

Career and Placement Services. Presentation: "Living and Working in the U.S." Noon to 1:00 p.m. Dinwoodie Lounge, 2-000 Students' Union Building. Admission is Free; however, please pre-register at CaPS, 2-100 Students' Union Building. For more information, please contact CaPS, 492-4291 or check Web site www.ualberta.ca/caps

Department of Anthropology. Dr. Mark Nuttall, Professor of Social Anthropology, University of Aberdeen, Distinguished Visitor and Tory Chair Candidate, presenting public lecture on "Global Interdependence and Arctic Voices." Room 1-9 Business Building. From 3:00 to 4:30 p.m.

FEBRUARY 5

Student Counselling Services. Drop-in Career Information Session. No registration is required. For more information contact Student Counselling Services at 492-5205. Location: 2-600 Students' Union Building. From 10:00 to 10:50 a.m.

Career and Placement Services. "International Business Career Forum." A panel of guest speakers from leading companies discuss what it takes to excel in a particular field or discipline. Take part in this great networking opportunity! Location: 1-93 Tory Building. From 3:00 to 5:00 p.m. Tickets are just \$4 if you pre-register at CaPS, 2-100 Students' Union Building. For more information call 492-4291 or check Web site www.ualberta.ca/caps

Department of Music. The University of Alberta Symphonic Wind Ensemble Concert. Fordyce Pier, Director. Unless otherwise indicated, admission: \$5/student/senior, \$10/adult. All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information. Convocation Hall, Arts Building. 8:00 p.m.

FEBRUARY 6

Department of Anthropology. Dr. Mark Nuttall, Professor of Social Anthropology, University of Aberdeen, Distinguished Visitor and Tory Chair Candidate, presenting Departmental Seminar "Self-determination, nation-building and localities of memory in Greenland." Location: Tory Breezeway, TB W2. From 1:00 to 3:00 p.m.

International Centre. Learn Portuguese in Brazil! Summer program information session at the International Centre, 172 HUB International. 12:00 p.m.

Career and Placement Services. "Sociology Career Forum." A panel of guest speakers from leading companies discuss what it takes to excel in a particular field or discipline. Take part in this great networking opportunity! Location: 1-91 Tory Building. From 3:00 to 5:00 p.m. Tickets are just \$4 if you pre-register at CaPS, 2-100 Students' Union Building. For more information call 492-4291 or check Web site www.ualberta.ca/caps

Career and Placement Services. Workshop "Interview Skills for Education Students." 4:30 to 7:00 p.m., 4-02 Students' Union Building. Workshop fees range from just \$10 to \$20. Pre-register at CaPS, 2-100 Students' Union Building. For a complete listing of upcoming events, check out Web site at www.ualberta.ca/caps

FEBRUARY 7

Lunch and Learn Presentation. "Beyond the Blues: Recognizing Depression." Presenter: Cory Hrushka, Insight Psychological & Family Support Services. Presented by the Health Recovery Support Unit. Location: Heritage Lounge, Athabasca Hall. From 12:00 p.m. to 1:00 p.m. Cost: Free! Snacks and beverages will be provided. To register or for more information contact Sarah Treby at 492-0659 or email: sarah.treby@hrs.ualberta.ca or visit Web site www.hrs.ualberta.ca/efap/news for an updated list of all workshops and other offerings.

Department of Renewable Resources. Landscape Ecology Seminar Series. Dr. Brian Stevenson, Associate Vice-President (International), U of A, speaking on "The University of Alberta's New Role in Internationalization: Strategies for the Future." Wyatt Lecture Room (236 Earth Sciences Building). From 12:30 to 1:50 p.m.

International Centre. Summer in Europe! Summer program information session at the International Centre, 172 HUB International. 12:30 p.m.

Department of Sociology. Sociology Colloquium. Dr. Peter Li, Department of Sociology,

University of Saskatchewan, speaking on "The Racial Subtext in Canada's Immigration Discourse." Room 5-15 H.M. Tory Building. From 12:30 p.m. to 2:00 p.m.

The University of Alberta Press. Poetry event. Join Governor General Award nominee, Robert Kroetsch for a reading from "The Hornbooks of Rita K." Audrey's Books, 10702 Jasper Avenue. 7:30 p.m. For more information, please contact Jocelyn Stevens, The University of Alberta Press, 492-7493.

FEBRUARY 7 TO 16

Studio Theatre welcomes in 2002 with "The Rover" by Aphra Behn. "Mrs. Behn" rivaled Shakespeare in the theatre world of Elizabethan England, and her plays only recently have been rediscovered after nearly two hundred years of absence from the stage. All performances begin at 8:00 p.m. with matinee on Thursday at 12:30 p.m. For further information, please call the Box Office at 492-2495.

FEBRUARY 8

Department of Biological Sciences. Ecology Seminar Series (part of the Biology 631 Seminar Series). Mark Dale, "Autocorrelation problems in spatial statistics." BS M-149, Biological Sciences Building. 12:00 noon.

Earth and Atmospheric Sciences. ATLAS

Seminar. Dr. Alex Wolfe from the Department of Earth and Atmospheric Sciences will present "Stratigraphic changes associated with the Holocene-Anthropocene boundary: evidence from remote lake ecosystems." Room 3-36 Tory Building. From 3:00 to 4:00 p.m.

Department of Biological Sciences. Genetics 605 Seminar Series. Molecular Biology and Genetics Research Group. Dr. Kevin Wilson, Department of Biochemistry, U of A, speaking on "Directed chemical probing of the translational machinery." Room M-149 Biological Sciences Building. 4:00 p.m.

FEBRUARY 8 AND 9

Department of Music. Opera Scenes. Alan Ord, Director. Unless otherwise indicated, admission: \$5/student/senior, \$10/adult. All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information. Convocation Hall, Arts Building. 8:00 p.m.

FEBRUARY 9

Philosopher's Café. 2 - 3:30 p.m. Location to be announced. Guest scholar Timothy Caulfield, Canada Research Chair in Health Law & Policy discusses Health care reform and your health: What are the issues? What are the solutions? Moderator: Bernard Linsky, Chair of Philosophy.

notices

Please send notices attention Folio, 6th floor General Services Building, University of Alberta, T6G 2H1 or e-mail public.affairs@ualberta.ca. Notices should be received by 3 p.m. one week prior to publication.

JANUARY 28, 2002 GFC AGENDA

- Agenda items include:
- Quarterly Report from Administrative Information Systems (AIS)
 - Discipline Sanctions Other than Exclusions: Report to GFC as Required by the (New) Code
 - Graduate Student Teaching: Recommendation of the GFC Teaching and Learning Committee (TLC) Regarding a Proposed Addition to Section 111.1 of the GFC Policy Manual
 - Several annual reports from GFC committees
 - For further information on these and remaining items on the agenda, please view: www.ualberta.ca/~unisechr/

THE EDMONTON CONSULAR BALL SCHOLARSHIP

Value: \$1,000 plus travel expenses of \$1,000-\$1,500.
Endowed by the Edmonton Consular Corps, the Edmonton Consular Ball Scholarship in International

Studies is awarded to graduate or third and fourth year undergraduate students who wish to undertake a summer research project in the area of international studies. Students from all faculties are encouraged to apply. Two to three scholarships are awarded annually.

Applications are in the form of a letter accompanied by a short essay/proposal (3,000 words or less) describing the topic the student wishes to study. The study may focus on any international aspect of the student's discipline. Please include a brief curriculum vitae. This must specify the student's social insurance number, the faculty and department, year of study, and major area of study. Please submit applications to:
Dr. Brian J.R. Stevenson
Chair, Consular Ball Scholarship Committee
University of Alberta International
1204 College Plaza, 8215-112 Street
Edmonton, Alberta
T6G 2C8
Deadline for Applications: March 8, 2002

laurels

J. GORDIN KAPLAN AWARD

The Office of the Vice President (Research) takes pleasure in announcing the 2002 Laureates of the J. Gordin Kaplan Award for Excellence in Research:
Dr. Ray V. Rajotte, Professor of Surgery and Medicine, Department of Surgery, Faculty of Medicine and Dentistry and Dr. Max van Manen, Professor of Education, Department of Secondary Education, Faculty of Education.
The awards ceremony will be held on Tuesday, March 5, 2002 at 4 p.m. at the Timms Centre for the Arts. Reception to follow.

For complete University of

Alberta job listings visit:

www.hrs.ualberta.ca/

ARE YOU READY FOR AN EMERGENCY?

SUGGESTIONS FOR YOUR HOME SURVIVAL KIT.

- ☒ Flashlight and batteries
- ☒ Radio and batteries
- ☒ First aid kit
- ☒ Extra car keys and cash
- ☒ Important papers such as ID, personal documents
- ☒ Canned food and bottled water, manual can opener
- ☒ One change of clothing and shoes
- ☒ Blankets or sleeping bags
- ☒ Toilet paper and personal supplies
- ☒ Medication
- ☒ A whistle to attract someone's attention
- ☒ Replace canned food and dry goods once a year!

FOR MORE INFORMATION ON DISASTERS, CALL YOUR LOCAL CANADIAN RED CROSS OFFICE OR EMERGENCY PREPAREDNESS CANADA.

 Canadian Red Cross

folio classifieds work

Call 492-2325 for more information

\$0.65 per word

Deadline: one week prior to publication date

Find whatever you want to buy or sell in the

Folio classifieds.

The Employee & Family Assistance Program (EFAP) has changed our services and preferred providers...



LUXURY APARTMENT HOTEL

Approved University Hotel
through the Hotel Authorization Program

\$65.00

1 bedroom
per night

\$85.00

2 bedroom
per night



- FREE** - LRT pass to the U of A
- FREE** - Deluxe continental breakfast
- FREE** - Heated underground parking
- FREE** - Local calls
- FREE** - Pass to the Kinsmen Sports Centre
- FREE** - 24 hour coffee service in lobby

1, 2 & 3 bedroom suites equipped with washers / dryers, dishwashers, microwaves, coffee makers and private balconies

*LRT passes only available with HAP Reservations *Subject to availability

(780) 488-1626 • 9715-110 St.

Spend A Night Not A Fortune

University of Alberta's



International Week 2002

January 28 - February 1

Living as if the Planet Matters

Forum on Global Water Crises:

We All Live Downstream

January 28, 8:00 am, TELUS Centre
and 7:00 pm, Myer Horowitz Theatre

Dr. David Schindler, Maude Barlow

and other speakers, music by Asani

Registration required for events at the TELUS Centre

Plains Blackfoot Relationship to Nature

January 29, 7:00 pm,
Myer Horowitz Theatre
Allan J. Wolf Leg

Living as if Forests Matter

January 30, 7:00 pm,
Myer Horowitz Theatre
Randy Hayes and Colleen McCrory

Protecting the Planet: Options for Action

January 31, 7:00 pm
Myer Horowitz Theatre
Isabel Altamirano, Dr. Virginia Cawagas,
Andrew Nikiforuk, the Radical
Cheerleaders and the Raging Grannies

"Rhythms of the Planet" Concert

February 1, 7:30 pm,
Myer Horowitz Theatre
Buffalo Tail Productions, Capoeira,
the Drumcan Man, the Okoto Dancers,
and the Viajante Drumming Ensemble
Advance tickets:
\$8/students and \$10/non-students

Over 50 events. Most are free. Everyone welcome.

Full details available at www.international.ualberta.ca/iweek, in the program guide at locations across campus and at the International Centre, 172 HUB International, 492-2692.

Coordinated by the International Centre, University of Alberta International



...in order to provide the best service possible

Watch for information, posters & brochures in your department

www.hrs.ualberta.ca/efap

EFAP Self-Help Line - 492-8444



folio display ads work

Display advertisements:

Camera-ready artwork is required to size, complete with halftones if necessary.

Call 439-5473 for sizes, rates and other particulars.

Priority One Human Resources Inc.

Psychological Counselling and Assessments

We have served University of Alberta clientele since 1989. Your feedback to us indicates satisfaction with our professional and **confidential** services. You have told us that our counselling has enabled you to meet your challenges at home and in the workplace. The services have helped you remain positive and productive.

We continue to welcome all current and new clients. For an appointment or information call:

(780) 433-6811

1-800-661-7052

Conveniently Located

8625 - 112 Street

Campus Tower

Visit us at:

www.priorityonehr.com



"People Helping People"



positions

The records arising from this competition will be managed in accordance with provisions of the Alberta Freedom of Information and Protection of Privacy Act (FOIPPA).

The University of Alberta hires on the basis of merit. We are committed to the principle of equity of employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal persons.

PROFESSOR, SCIENCE AND RELIGION ST. JOSEPH'S COLLEGE

St. Joseph's College, the Roman Catholic undergraduate college at the University of Alberta, invites applications for a .8 FTE tenure-track position in Science and Religion, effective July 1, 2002. Applicants should have a completed doctorate with a specialization in theology and science, and demonstrated excellence in teaching and research, including a record of scholarly publication. Salary appropriate to qualifications; benefits are competitive. Applicants should submit a letter of application indicating their qualifications for this position, curriculum vitae, other supporting material (teaching dossier, publications, etc.) and arrange for three confidential letters of reference to be received by February 22, 2002 to:

Dr. T.F. Hartnagel,
Dean, St. Joseph's College,
University of Alberta, Edmonton, AB,
T6G 2J5

For further information concerning the college see our website: www.ualberta.ca/~stjoseph

PROJECT CO-ORDINATOR, HEALTH SCIENCES FACULTE SAINT-JEAN

The Faculté Saint-Jean invites applications for the newly created position of co-ordinator of health sciences program. This is a full time, 16-month contract. The co-ordinator will play a lead role in the Faculté's proposal, development and implementation of health sciences programs in the context of the Centre national de formation en santé (CNFS).

Faculté Saint-Jean is a partner of CNFS in a pan-

Canadian initiative to provide access and delivery of health programs in French minority communities across Canada.

The project coordinator will be responsible for:

Co-ordinating the activities of developing a bilingual bachelor of nursing program and a general health science program.

Liaising with the CNFS and partner institutions across Canada, the Co-ordinating Council of Health Sciences within the University of Alberta, professional associations, government, francophone communities and organizations in British Columbia and the Northwest Territories, and other francophone universities.

Developing funding proposals.

Marketing, promoting and representing health science programs at FSJ.

The successful candidate will have the following qualifications:

Project management experience, preferably in work related to health care

Excellent communication and interpersonal skills

Ability to work both independently and in a teamwork environment

A university degree, preferably in an area related to health care

Bilingual (French and English) in both verbal and written skills

Some travel will be required. The salary range for this trust-funded position is \$43,000 - \$61,000 per year.

Please submit a résumé by February 1, 2002 to:

Dr. Claudette Tardif
Dean, Faculté Saint-Jean
University of Alberta
8406 91 Street
Edmonton AB T6C 4G9

For further information concerning FSJ see our website:

www.fsj.ualberta.ca/

All prices are net. Prices in effect until February 24, 2002.

GRAND & TOY®

STUFF FOR SCHOOL

it's a no brainer!

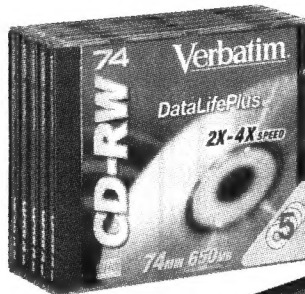
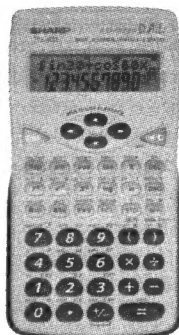


ZEBRA
SARASA GEL
RETRACTABLE
PENS
EACH ONLY
1.99

Memorex®
COOL CD-R
10-PACK
PKG. ONLY
12.99



SHARP
183-FUNCTION
SCIENTIFIC
CALCULATOR
EACH ONLY
13.99



Verbatim.
CD-REWRITABLE
5-PACK
PKG. ONLY
9.99

Hiboy
FIVE-STAR
ZIPPERED
BINDERS
EACH ONLY
16.99



hp
INKJET
CARTRIDGES
EACH FROM
43.99

**SAVE
50%**

**COMFORT MATE
BALL PENS
EACH FROM
49¢**



GRAND & TOY

ENTER TO WIN! 1 OF 10 CASIO CASSIOPEIA BE-300 POCKET MANAGERS

To enter, fill out this ballot and drop it off at your local Grand & Toy store. No purchase necessary. Only one entry per person. Must be a resident of Canada, excluding Quebec, and have reached the age of majority. Selected entrants will be required to answer a skill-testing question. Contest closes February 24, 2002. Draw date: March 15, 2002. Complete rules and regulations in store. Approximate retail value \$300.00

Name: _____

Address: _____

Phone: _____

E-mail: _____

Skill Testing Question: (10+5-6) x 2 = _____

**Kingsway Garden Mall
780-479-2662**

**Edmonton City Centre
780-413-9538**

Ads are charged at \$0.65 per word. Minimum charge: \$6.50. All advertisements must be paid for in full by cash or cheque at the time of their submission. Bookings may be made by fax or mail provided payment is received by mail prior to the deadline date. Pre-paid accounts can be set up for frequent advertisers. Please call 492-2325 for more information.

ACCOMMODATIONS FOR RENT

REAL ESTATE – Buy or Sell, Leases (Furnished/unfurnished). Janet Fraser or Gordon W.R. King. Telephone: (780) 441-6441. www.gordonwking-assoc.com Gordon W.R. King and Associates Real Estate Corp.

FURNISHED CLARIDGE HOUSE, near U of A. Executive one-bedroom, hardwood floors, air-conditioned, pool, sauna, spa. City view. Immediate. \$1,200/month. Janet Fraser, Gordon W.R. King and Associates Real Estate, 441-6441.

RIVERBEND – UPLANDS, furnished executive condo, 2,000 sq ft. Immediate. \$1,300/month.

Janet Fraser, Gordon W.R. King and Associates Real Estate, 441-6441.

CALL NOW! To buy, sell, lease a condominium. \$49,000 to \$450,000. Please ask for Connie Kennedy, condo specialist/consultant, since 1968. RE/MAX, 482-6766, 488-4000.

WALK TO HOSPITAL OR CAMPUS. One bedroom Garneau condominium. Upgrades. Six appliances. Underground parking. \$750/month. February 1 occupancy. Call Jane, 439-6345.

HOUSE AVAILABLE May through August 2002. Walk to University. Three-four bedrooms. Non-smokers. No pets. 432-7864.

ACCOMMODATIONS FOR SALE

VICTORIA PROPERTIES – knowledgeable, trustworthy, realtor with Edmonton references. Will answer all queries, send information, no cost/obligation. "Hassle-free" property management provided. (250) 383-7100, Lois Dutton, Duttons & Co. Ltd. #101 – 364 Moss Street, Victoria, B.C. V8V 4N1

SPACIOUS CONDOMINIUM, 1,700 sq ft., living room, dining room, eat-in kitchen, two bathrooms, two bedrooms, jacuzzi tub, sauna, one underground parking stall. \$169,900. Call Khrystia, 491-0317, evenings after 7:00 p.m.

ACCOMMODATIONS WANTED

TWO-THREE BEDROOM HOUSE to rent, March 1, 2002 – July 31, 2002. Clean, responsible, non-smoking family. Crestwood, Valleyview or nearby areas preferred. Call 452-1150.

GOODS FOR SALE

CASH PAID for quality books. The Edmonton Book Store, 433-1781.

SERVICES

DAVE RICHARDS, Journeyman Carpenter, General Contractor. Complete renovations including plumbing and electrical. Custom cabinet work. No job too small. 436-6363.

New Network of EFAP Service Providers

Confidential Counseling Services

Anger Management
Financial Consultation
Retirement Adjustment

Communication
Grief & Loss
Self-Esteem Issues

Career Planning
Mediation
Supervisory Coaching

www.hrs.ualberta.ca/efap

492-8444

Wilson Banwell
Lynda J. Phillips
Insight Psychological & Family Support Services
Lousage Institute
H.J. McLeod & Associates
Cornerstone Counselling Centre
Centre for Cognitive Behavioral Therapy

428-7587
428-7587
461-1717
488-7679
447-2614
482-6215
455-8133



efap

healthy people • healthy workplace

BROADBAND WIRELESS

Wednesday, January 16th NORMAN BEAULIEU Biosciences 587, University of Calgary

INFORMATION PROCESSING

Wednesday, February 13th GRAHAM JULLIEN Telus Centre 134, University of Alberta

GLOBAL POSITIONING

Wednesday, March 13th GERARD LACHAPPELLE Telus Centre 134, University of Alberta

ARTIFICIAL INTELLIGENCE

Wednesday, April 17th JONATHAN SCHAEFFER Biosciences 587, University of Calgary

NANOTECHNOLOGY

Wednesday, May 15th MICHAEL BRETT Biosciences 587, University of Calgary

NANOTECHNOLOGY

Wednesday, September 18th MARK FREEMAN Biosciences 587, University of Calgary

BROADBAND WIRELESS

Wednesday, October 16th CAREY WILLIAMSON Telus Centre 134, University of Alberta

ENCRYPTION

Wednesday, November 13th HUGH WILLIAMS Telus Centre 134, University of Alberta

lectures are free
LIVE SCHEDULE



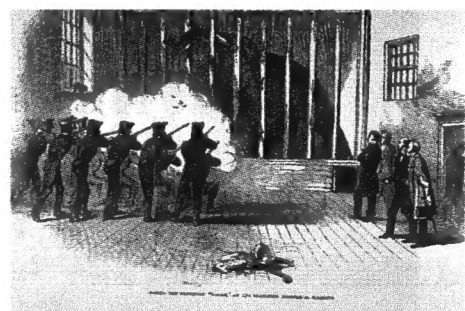
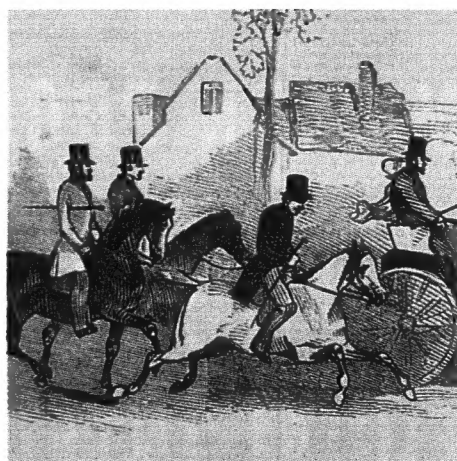
everyone welcome
WEB SCHEDULE

All lectures are at 4 pm live and by videolink in Calgary and Edmonton. Reception at 5 pm in host location.

Lectures available for desktop viewing within 24 hours of live presentation at www.icore.ca

All lectures can be attended through the Alberta Video Classroom Network at U of C (Biosciences 587), U of A (Telus Centre 134), Mount Royal College (1107), SAIT (TRT 304), and MAIT (H003).

THE EMPIRE LOOKS BACK



Marcus Bence

Bound copies of *The Illustrated London News* donated to the University of Alberta hold immense historic appeal. The world's first illustrated news-magazine, the publication offers news coverage of pivotal events of the nineteenth century, including the Crimean War, the French Revolution and the American Civil War. The magazines are available for viewing at the Bruce Peel Special Collections Library.

Donated newsmagazine tells it like it was during the nineteenth century

By Ryan Smith

A University of Alberta engineering graduate has donated 41 bound volumes, spanning from 1845-1871, of *The Illustrated London News*, the world's first illustrated newsmagazine. Clarence Carlson (Eng '45) had built the collection, now valued at more than \$56,000, for more than 50 years before making the donation late last year.

"I know the collection is valuable," said Carlson from his home in Pacific Palisades, California. "My suspicion is they'll be locked away in a vault someplace, but I'd really like to see these volumes out on the shelves and readily available to the U of A students and staff."

They will be.

"These books will definitely be catalogued and available in our special collections," said John Charles, head of the U of A Bruce Peel Special Collections Library. "They are an extraordinary entry point into the life and culture of nineteenth-century Britain, and the British Empire's view of the world at that time."

Assessed by an appraiser as "extremely handsome and in very good to fine condition internally," the books have been bound with contrasting leather labels and marbled paper over boards.

They represent, in both words and wood-engraved pictures, weekly accounts of the seminal events of the nineteenth century, including the Crimean War, the European War of 1859, the American Civil War, the Dano-German War, the Austro-Prussian War and the Commune and Siege of Paris.

The volumes also include full-page and panorama pull-out illustrations. "I especially admire the etchings," said Carlson, who has read every one of the volumes "cover to cover."

The magazine's editors "would send artists out into the field—all over the world—and the artists would draw what they saw and send their work back to headquarters, where the drawings were then engraved on wood taken from apple tree trunks," said Carlson. "If you look carefully, you can see the craftsmanship and appreciate how talented these artists really were."

Raised in Edmonton, Carlson first noticed *The Illustrated London News*, which is still published today, more than 50 years ago at a fair in Pigeon Lake, Alberta. "A man had a few old copies on display and I thought, 'My God this is interesting—it's real world history as it happened.'"

The Pigeon Lake collector wasn't selling, so Carlson eventually found

a bookseller in London who would help him. "But he made me vow I wouldn't tear apart the volumes and sell the etchings separately because, he said, a lot of Americans do that and make a lot of money. I promised I wouldn't, so he began to send me two or three volumes a year for many years," Carlson explained.

Before they were sent, however, Carlson paid for them to be bound by the same bookbinder who also served the British Parliament. "Both my bookseller and my bookbinder died a while ago, and photography became prevalent in the 1880s and that didn't interest me much, so I decided I was happy with my collection and I wouldn't try to add to it anymore," said Carlson, who has about 30 more volumes of the magazine at his home.

Now 82, Carlson is about to embark on a trip around the world. He received his masters in microwave physics from Stanford University and enjoyed a long, successful career with Hughes Aircraft. He was involved with the launches of the first spacecraft to land on the moon and the first synchronous satellite (one that orbits at the same speed as the Earth's rotation). He's involved in many volunteer activities and sits on the Board of Governors of California State University at Fullerton.

"We are grateful for Mr. Carlson's generous support of the University of Alberta," said U of A President Dr. Rod Fraser. "His gift is an extremely rare treasure trove of historical information, and I know it'll be very beneficial to our students and staff."

folio **back**
page